

217/782-2113

CONSTRUCTION PERMIT -- NSPS SOURCE - REVISED

PERMITTEE

Lone Star Industries  
Attn: Christa Russell  
Oglesby Cement Plant  
Portland Avenue, P.O. Box 130  
Oglesby, Illinois 61348

Application No.: 89060051                      I.D. No.: 099816AAF  
Applicant's Designation: ROLLERMILL              Date Received: December 23, 2002  
Subject: Roller Mill/High Efficiency Separator  
Date Issued:  
Location: Portland Avenue, Oglesby

Permit is hereby granted to the above-designated Permittee to Construct emission source(s) and/or air pollution control equipment consisting of one material handling belt conveyor system with two transfer point bag filters, three new rock bins for loading and unloading with fabric filters, a roller mill with a fabric filter, a new kiln feed system and a high efficiency air separator with a fabric filter as described in the above referenced application. This Permit is subject to standard conditions attached hereto and the following special conditions:

- 1a. These emission sources, as they constitute a new raw mill system, new finish mill system, new material storage, and new conveyor transfer points, are subject to a New Source Performance Standard (NSPS) for Portland cement plants, 40 CFR 60, Subparts A and F. The Illinois EPA is administering NSPS in Illinois on behalf of the United States EPA under a delegation agreement.
- b. The opacity of visible emissions from these emission sources shall not exceed 10%, pursuant to the New Source Performance Standard.
- c. At all times, the Permittee shall also, to the extent practicable, maintain and operate these emissions sources, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.
- 2a. Emissions and operation of equipment shall not exceed the following limits. These limits shall take effect upon initial commencement of operations of equipment, which shall take effect upon achievement of routine production or 180 days after initial commencement of operation, whichever occurs first. Compliance with particulate matter emission limits shall be determined by USEPA Reference Method 5.

| <u>Item of Equipment</u>  | <u>Particulate Matter Emissions</u> |                    |
|---------------------------|-------------------------------------|--------------------|
|                           | <u>(Lb/Hour<sup>1</sup>)</u>        | <u>(Tons/Year)</u> |
| Blend Silos               | 0.69                                | 3.0                |
| Roller Mill               | 13.4                                | 43.5               |
| High Efficiency Separator | 5.9                                 | 19.8               |
| Rock Bins                 | 0.29 <sup>2</sup>                   | 1.27               |
| Belt Conveyor             | 0.42                                | 1.82               |
|                           | Total                               | 69.4               |

<sup>1</sup> Compliance with hourly emission limits shall be determined by most recent emission testing and proper operation of equipment.

<sup>2</sup> Compliance with this limit may be demonstrated as a daily average, if (emission testing) is performed to address emissions both when the conveyor or rock bins are operating and when it is idle.

b. Upon achievement of routine production by the new roller mill:

i. The kiln shall not operate for more than 3,000 hours/year when the roller mill is out of service or not operating, such that at least 95,600 ACFM of the exhaust flow from the kiln is exhausted through the roller mill.

ii. Whenever the roller mill is in normal operation, the kiln/ESP particulate matter emissions to the atmosphere from the kiln stack shall not exceed 25.2 lb/hour. Whenever the roller mill is out of service or not in normal operation, particulate matter emissions from the kiln stack shall not exceed 42.3 lbs/hr.

c. Compliance with annual limits shall be determined from a running total of 12 months of data.

3a. This permit is issued based upon contemporaneous and creditable decrease in emissions so that the net increases in emissions are not significant. In particular, when the roller mill is operating, some or all of the kiln exhaust will be diverted from the kiln stack to the roller mill. At the roller mill, the hot kiln exhaust is used as process air for drying the raw feed for the kiln and ventilation of the mill, and then vented through the baghouse. Therefore this new equipment is not subject to federal Rules for the Prevention of Significant Deterioration of Air Quality, 40 CFR 52.21 or 35 Ill. Adm. Code Part 203 Subpart C. The decrease in emissions will be created by the shutdown of existing equipment as described in the application. As a result this permit does not represent a significant net increase in emissions of particulate matter or particulate matter<sub>10</sub>.

b. Upon achievement of routine production or 180 days after initial commencement of operation of a new emission source covered by this permit, whichever occurs first, the equipment it replaced shall be shut down or placed on standby status. If placed on standby, the existing

equipment shall not be operated without approval from the Agency. Such approval may be granted pursuant to this permit, if the need to operate equipment relates to the need for an extended shakedown period for the new equipment. Otherwise a new permit shall be obtained from the Illinois EPA.

4. The Permittee shall fulfill applicable notification and recordkeeping requirement of the NSPS, 40 CFR 60.7 and 60.63, for the new equipment.
- 5a. The Permittee shall maintain a file with the following items:
  - i. Manufacturer's specifications for all dust collectors associated with material transfers from the roller mill and finish mills.
  - ii. Manufacturers specifications and recommended operating procedures for continuous opacity monitors that are relied upon to show compliance.
  - iii. Copies of final reports for emission testing that is relied upon to show compliance.
- b. The Permittee shall maintain monthly records of material throughput for all equipments.
- c. The Permittee shall keep inspection, maintenance, and repair logs with date and nature of such activities for the control equipments.
- d. The Permittee shall maintain the following records related to emissions from the equipments:
  - i. Other data, not addressed above, used or relied upon by the Permittee to determine emissions;
  - ii. Average hourly, monthly and annual emissions of PM and PM<sub>10</sub> from the equipment with supporting calculations.
- e. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years and shall be available for inspection and copying by the Illinois EPA upon request.
6. The Permittee may operate the equipment described in this permit pursuant to this construction permit until the CAAPP permit is revised to address these units.

It should be noted that this permit has been revised (1) to allow continuous operation of the roller mill, high efficiency separator, rock bins, and belt conveyor with a reduction in permitted hourly emissions of PM and no change in the permitted annual PM emissions and (2) to simplify provisions coordinating the operation of the roller mill with the operation of the kiln given changes that have been made to these units.

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If you have any questions on this, please call Minesh Patel at 217/782-2113.

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Division of Air Pollution Control

DES:MVP:psj

cc: Region 2